

SEQUENCE LISTING

<110> KOREA KUMHO PETROCHEMICAL CO., LTD

<120> NUCLEIC ACID MOLECULES ENCODING ANNEXINS FROM PLANTS

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<211> 1230

<212> DNA

<213> Arabidopsis thaliana

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 35 40 45

Ile Arg Gln Ala Tyr His Glu Thr Tyr Gly Glu Asp Leu Leu Lys Thr
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Leu Asp Lys Glu Leu Ser Asn Asp Phe Glu Arg Ala Ile Leu Leu Trp
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Thr Leu Glu Pro Gly Glu Arg Asp Ala Leu Leu Ala Asn Glu Ala Thr
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Lys Arg Trp Thr Ser Ser Asn Gln Val Leu Met Glu Val Ala Cys Thr
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Arg Thr Ser Thr Gln Leu Leu His Ala Arg Gln Ala Tyr His Ala Arg
115 120 125

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130 135 140

Phe Arg Lys Leu Leu Val Ser Leu Val Thr Ser Tyr Arg Tyr Glu Gly
145 150 155 160

Asp Glu Val Asn Met Thr Leu Ala Lys Gln Glu Ala Lys Leu Val His
165 170 175

Glu Lys Ile Lys Asp Lys His Tyr Asn Asp Glu Asp Val Ile Arg Ile
180 185 190

Leu Ser Thr Arg Ser Lys Ala Gln Ile Asn Ala Thr Phe Asn Arg Tyr
195 200 205

Gln Asp Asp His Gly Glu Glu Ile Leu Lys Ser Leu Glu Glu Gly Asp
210 215 220

Asp Asp Asp Lys Phe Leu Ala Leu Leu Arg Ser Thr Ile Gln Cys Leu
225 230 235 240

Thr Arg Pro Glu Leu Tyr Phe Val Asp Val Leu Arg Ser Ala Ile Asn
245 250 255

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Ala Glu Ile Asp Leu Lys Val Ile Gly Glu Glu Tyr Gln Arg Arg Asn
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 Lys Ser Gln Lys Glu His Arg Lys Leu Phe Arg Lys Ala Ser Lys Ser
 35 40 45
 Phe Phe Val Glu Asp Glu Glu Arg Ala Phe Glu Lys Cys His Asp His
 50 55 60

Phe Val Arg His Leu Lys Leu Glu Phe Ser Arg Phe Asn Thr Ala Val
65 70 75 80

Val Met Trp Ala Met His Pro Trp Glu Arg Asp Ala Arg Leu Val Lys
85 90 95

Lys Ala Leu Lys Lys Gly Glu Glu Ala Tyr Asn Leu Ile Val Glu Val
100 105 110

Ser Cys Thr Arg Ser Ala Glu Asp Leu Leu Gly Ala Arg Lys Ala Tyr
115 120 125

His Ser Leu Phe Asp Gln Ser Met Glu Glu Asp Ile Ala Ser His Val
130 135 140

His Gly Pro Gln Arg Lys Leu Leu Val Gly Leu Val Ser Ala Tyr Arg
145 150 155 160

Tyr Glu Gly Asn Lys Val Lys Asp Asp Ser Ala Lys Ser Asp Ala Lys
165 170 175

Ile Leu Ala Glu Ala Val Ala Ser Ser Gly Glu Glu Ala Val Glu Lys
180 185 190

Asp Glu Val Val Arg Ile Leu Thr Thr Arg Ser Lys Leu His Leu Gln
195 200 205

His Leu Tyr Lys His Phe Asn Glu Ile Lys Gly Ser Asp Leu Leu Gly
210 215 220

Gly Val Ser Lys Ser Ser Leu Leu Asn Glu Ala Leu Ile Cys Leu Leu
225 230 235 240

Lys Pro Ala Leu Tyr Phe Ser Lys Ile Leu Asp Ala Ser Leu Asn Lys
245 250 255

Asp Ala Asp Lys Thr Thr Lys Lys Trp Leu Thr Arg Val Phe Val Thr

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Gly	Asn	Tyr	Arg	Asp	Phe
305			310		315